CLAIMS

What is claimed is:

1	1. An information handling system having a DC-DC standby voltage converter, said
2	information handling system comprising:
3	information handling equipment having a plurality of devices requiring a plurality
4	of standby voltages; and
5	a DC-DC standby voltage converter comprising:
6	a plurality of sequencers, each of the plurality of sequencers having a first input, a
7	first output and a control input, wherein a voltage on the first input is sequenced on and
8	off at the first output depending upon a logic state at the control input; and
9	at least one charge pump having a second input, a second output, and voltage
10	adjustment input, wherein the second input has a voltage of a first value and the second
11	output has a voltage of a second value, whereby the voltage adjustment input determines
12	the second voltage value;
13	wherein the first input of at least one of the plurality of sequencers is
14	coupled to the second output of the at least one charge pump and receives the
15	second voltage value therefrom; and
16	the plurality of devices are coupled to the first outputs of the plurality of
17	sequencers and receive the plurality of standby voltages therefrom.

CLIENT REFERENCE: DC-05099/AEP

- 1 2. The information handling system according to claim 1, wherein the plurality of standby voltages are sequenced on and off with the plurality of sequencers in a predetermined order.
- 1 3. The information handling system according to claim 2, wherein the predetermined 2 order is programmable.
- 1 4. The information handling system according to claim 1, wherein the standby voltages are of different voltage values.
- The information handling system according to claim 1, wherein the first voltage value is greater than the second voltage value.
- 1 6. The information handling system according to claim 1, wherein the first voltage value is less than the second voltage value.
- 7. The information handling system according to claim 1, wherein the first voltage value is substantially equal to the second voltage value.
- 1 8. The information handling system according to claim 1, further comprising an 2 enable input for enabling and disabling the first outputs of the plurality of sequencers.
- 9. The information handling system according to claim 8, wherein the first outputs are in a high impedance state when disabled.

HOU02:940773 15 016295.1398

least one charge pump.

10.	The information	handling system	according to claim	1, further comprising

a multiplexer having at least two inputs, an output and a control input, wherein the control input determines which one of the at least two inputs is coupled to the output; and the output of the multiplexer is coupled to the first inputs of those plurality of sequencers not coupled to the at least one charge pump and the second input of the at

11. A DC-DC standby voltage converter, comprising:

a plurality of sequencers, each of the plurality of sequencers having a first input, a first output and a control input, wherein a voltage on the first input is sequenced on and off at the first output depending upon a logic state at the control input; and

at least one charge pump having a second input, a second output, and voltage adjustment input, wherein the second input has a voltage of a first value and the second output has a voltage of a second value, whereby the voltage adjustment input determines the second voltage value;

wherein the first input of at least one of the plurality of sequencers is coupled to the second output of the at least one charge pump and receives the second voltage value therefrom.

- 12. The DC-DC standby voltage converter according to claim 11, wherein the voltages at the first outputs are sequenced on and off in a predetermined order.
- 1 13. The DC-DC standby voltage converter according to claim 12, wherein the predetermined order is programmable.

HOU02:940773 16 016295.1398

Client Reference: DC-05099/AEP

1

2

1

2

3

4

5

6

1	14.	The DC-	-DC s	tandby	voltage	converter	according	to	claim	11,	wherein	the
2	voltages at the first outputs are of different voltage values.											

- 1 15. The DC-DC standby voltage converter according to claim 11, wherein the first voltage value is greater than the second voltage value.
- 1 16. The DC-DC standby voltage converter according to claim 11, wherein the first voltage value is less than the second voltage value.
- 1 17. The DC-DC standby voltage converter according to claim 11, wherein the first voltage value is substantially equal to the second voltage value.
- 1 18. The DC-DC standby voltage converter according to claim 11, further comprising 2 an enable input for enabling and disabling the first outputs of the plurality of sequencers.
 - 19. The DC-DC standby voltage converter according to claim 18, wherein the first outputs are in a high impedance state when disabled.
 - 20. The DC-DC standby voltage converter according to claim 11, further comprising:

 a multiplexer having at least two inputs, an output and a control input, wherein the

 control input determines which one of the at least two inputs is coupled to the output; and

 the output of the multiplexer is coupled to the first inputs of those plurality of

 sequencers not coupled to the at least one charge pump and the second input of the at

 least one charge pump.

Client Reference: DC-05099/AEP

1

2

1

2

3

1	21.	A method of providing	sequenced stand	by voltages for	or an information	n handling
2	system, said m	nethod comprising:				

- providing a plurality of standby voltages for a plurality of devices in an information handling system;
- sequencing the plurality of standby voltages with a plurality of sequencers; and

 providing at least one standby voltage of the plurality of standby voltages with a

 charge pump, the at least one standby voltage having a different voltage value then the

 other ones of the plurality of standby voltages
 - 22. The method according to claim 21, wherein the step of sequencing further comprises the step of programming the sequencing order.
 - 23. The method according to claim 21, further comprising the steps of enabling and disabling the plurality of sequencers so that the plurality of standby voltages are on and off, respectively.
- 1 24. The method according to claim 23, wherein the step of disabling further 2 comprises the step of placing outputs of the plurality of sequencers to a high impedance.
- 1 25. The method according to claim 21, further comprising the step of selecting 2 between a plurality of standby voltage sources with a multiplexer.
 - 26. The method according to claim 21, further comprising the step of adjusting the at least one standby voltage having the different voltage value.